

**WHAT IS CLAIMED IS:**

- 1 1. A computer implemented method for provisioning broadband service in  
2 a Point-to-Point Protocol over Ethernet (PPPoE) network, comprising:  
3 transmitting an authentication request from a modem to multiple  
4 domain names over a PPPoE network ; and  
5 receiving authorization from at least one of said domain names.
- 1 2. The method of claim 1, further comprising, prior to said transmitting  
2 step, the step of providing a modem that includes a list of said multiple  
3 domain names, where each of said domain names is associated with a  
4 different Broadband Service Node (BSN).
- 1 3. The method of claim 1, further comprising, prior to said transmitting  
2 step, the step of establishing a PPPoE session.
- 1 4. The method of claim 1, further comprising, prior to said transmitting  
2 step, the steps of:  
3 requesting only a single identifier from a user of a client  
4 computer;  
5 receiving said identifier; and  
6 storing said identifier.
- 1 5. The method of claim 4, wherein said transmitting step comprises  
2 transmitting an authorization request containing said identifier and a generic  
3 password to each of said multiple domain names.
- 1 6. A method of claim 1, wherein said receiving step comprises acquiring  
2 at least one static Internet Protocol (IP) address.
- 1 7. The method of claim 6, further comprising:

transmitting a configuration request to an Internet Service  
Provider (ISP), where said configuration request is addressed from  
said static IP address;  
receiving full configuration details from said ISP, where said full  
configuration details are addressed to said static IP address; and  
automatically configuring said modem based on said full  
configuration details.

8. A system for provisioning broadband service in a Point-to-Point  
Protocol Over Ethernet (PPPoE) network, comprising:  
at least one client computer;  
a modem coupled to said client computer, said modem  
including a memory comprising:  
instructions for transmitting an authentication  
request from said modem to multiple domain names over  
a PPPoE network ; and  
instructions for receiving authorization from at  
least one of said domain names;  
multiple Broadband Service Nodes (BSNs) coupled to said  
modem, where each of said multiple domain names is associated with  
a different one of said multiple BSNs; and  
an authentication server coupled to each one of said multiple  
BSNs.

9. The system of claim 8, further comprising:  
a Digital Subscriber Line Access Multiplexor (DSLAM) coupled  
between said modem and said BSNs;  
an Asynchronous Transfer Mode (ATM) network coupled  
between said DSLAM and said BSNs; and  
a Broadband Remote Access Server (BRAS) coupled between  
said ATM network and said BSNs.

1 10. The system of claim 8, wherein said BSNs are coupled to the Internet.

1 11. The system of claim 8, wherein said memory further comprises a  
2 generic password.

1 12. A computer program product for use in conjunction with a computer  
2 system for provisioning broadband service in a Point-to-Point Protocol Over  
3 Ethernet (PPPoE) network, the computer program product comprising a  
4 computer readable storage and a computer program stored therein, the  
5 computer program comprising:

6 instructions for transmitting an authentication request from said  
7 modem to multiple domain names over a PPPoE network ; and

8 instructions for receiving authorization from at least one of said  
9 domain names.